

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Louis A. Tartaglia and Xun Weng)

Title: *Nucleic Acid Molecules Encoding*)
GLUTX and Uses Thereof)

Filed: HEREWITH)

Attorney Docket No. MPI1998-021DV3)

Group Art Unit: Unknown

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I hereby certify that this paper or fee is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

Signature

Andrew Boyd

Printed Name of Person Signing

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, Applicants hereby request entry of the amendments provided herewith to the specification.

As required under 37 CFR §1.121(b)(1)(ii), a clean version of each replacement paragraph is provided herewith in Appendix A. As required under 37 CFR §1.121(b)(1)(iii), a marked up version of each replacement paragraph is provided herewith in Appendix B, in which deleted matter is bracketed and inserted matter is underlined.

REMARKS

Applicants maintain that the amendments do not introduce new matter to the instant application. The amendments are requested to reflect changes to the figures in the application as a result of the formal drawings filed herewith under 37 C.F.R. §1.84.

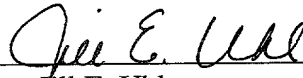
It is estimated that no additional charge is required for this response to the Notice of Non-Compliant Amendment. In the event that a fee is required, the Commissioner is hereby authorized to charge the amount of the required fee to Millennium Pharmaceuticals, Inc. Deposit Account No. 501668.

Applicants respectfully request entry of the amendments and remarks contained in this paper.

Respectfully submitted,

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By:


Jill E. Uhl
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Dated: October 18, 2001

APPENDIX A
CLEAN VERSION OF REPLACEMENT PARAGRAPHS

Page 1, before "Background of the Invention", insert the following paragraph:

Related Application Information

This application is a divisional of application serial no. 09/610417 filed July 5, 2000, which is a divisional of application no. 09/299,549, filed April 26, 1999, which is a divisional of application no. 09/031,392, filed February 26, 1998.

Paragraph that bridges page 1, line 25 to page 2 line 29:

The invention described herein relates to the discovery and characterization of a cDNA encoding GLUTX, a human glucose transporter protein. The nucleotide sequence of a cDNA encoding GLUTX is shown in [Fig. 1] Figs. 1A-1E. The deduced amino acid sequence of GLUTX is shown in [Fig. 2] Figs. 2A-2D. GLUTX is predicted to include 12 transmembrane domains. The first transmembrane domain extends from about amino acid 52 (intracellular end) to about amino acid 71 (extracellular end). The second transmembrane domain extends from about amino acid 108 (extracellular end) to about amino acid 128 (intracellular end). The third transmembrane domain extends from about amino acid 141 (intracellular end) to about amino acid 159 (extracellular end). The fourth transmembrane domain extends from about amino acid 166 (extracellular end) to about amino acid 189 (intracellular end). The fifth transmembrane domain extends from about amino acid 204 (intracellular end) to about amino acid 221 (extracellular end). The sixth transmembrane domain extends from about amino acid 233 (extracellular end) to about amino acid 252 (intracellular end). The seventh transmembrane domain extends from about amino acid 317 (intracellular end) to about amino acid 338 (extracellular end). The eighth transmembrane domain extends from about amino acid 355 (extracellular end) to about amino acid 375 (intracellular end). The ninth transmembrane domain extends from about amino acid 383 (intracellular end) to about amino acid 404 (extracellular end). The tenth transmembrane domain extends from about amino acid 413 (extracellular end) to about amino acid 437 (intracellular end). The eleventh